

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/684,361A

DATE: 01/10/2002
TIME: 13:30:58

Input Set : A:\465c2.app
Output Set: N:\CRF3\01102002\I684361A.raw

ENTERED

3 <110> APPLICANT: Gaiger, Alexander
4 Cheever, Martin A.
9 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR WT1
10 SPECIFIC IMMUNOTHERAPY
12 <130> FILE REFERENCE: 210121.465C2
14 <140> CURRENT APPLICATION NUMBER: US 09/684,361A
15 <141> CURRENT FILING DATE: 2000-10-06
17 <150> PRIOR APPLICATION NUMBER: US 09/276,484
18 <151> PRIOR FILING DATE: 1999-03-25
20 <150> PRIOR APPLICATION NUMBER: US 09/164,223
21 <151> PRIOR FILING DATE: 1998-09-30
23 <160> NUMBER OF SEQ ID NOS: 326
25 <170> SOFTWARE: FastSEQ for Windows Version 3.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 17
29 <212> TYPE: PRT
30 <213> ORGANISM: Homo sapien
32 <400> SEQUENCE: 1
33 Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro Ser Leu Gly Gly Gly
34 1 5 10 15
35 Gly
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 23
40 <212> TYPE: PRT
41 <213> ORGANISM: Homo sapien
43 <400> SEQUENCE: 2
44 Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro
45 1 5 10 15
46 Tyr Leu Pro Ser Cys Leu Glu
47 20
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 23
51 <212> TYPE: PRT
52 <213> ORGANISM: Mus musculus
54 <400> SEQUENCE: 3
55 Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro
56 1 5 10 15
57 Tyr Leu Pro Ser Cys Leu Glu
58 20
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 19
62 <212> TYPE: PRT
63 <213> ORGANISM: Homo sapien
65 <400> SEQUENCE: 4
66 Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser Ser Val Lys
67 1 5 10 15
68 Trp Thr Glu

RECEIVED

APR 01 2002

TECH CENTER 1600/2900

RECEIVED

APR 01 2002

TECH CENTER 1600/2900

RECEIVED

APR 01 2002

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 01/10/2002

PATENT APPLICATION: US/09/684,361A

TIME: 13:30:58

Input Set : A:\465c2.app

Output Set: N:\CRF3\01102002\I684361A.raw

```

71 <210> SEQ ID NO: 5
72 <211> LENGTH: 22
73 <212> TYPE: DNA
74 <213> ORGANISM: Homo sapien
76 <400> SEQUENCE: 5
77 gagagtcaga cttgaaagca gt                22
79 <210> SEQ ID NO: 6
80 <211> LENGTH: 20
81 <212> TYPE: DNA
82 <213> ORGANISM: Homo sapien
84 <400> SEQUENCE: 6
85 ctgagcctca gcaaattgggc                20
87 <210> SEQ ID NO: 7
88 <211> LENGTH: 27
89 <212> TYPE: DNA
90 <213> ORGANISM: Homo sapien
92 <400> SEQUENCE: 7
93 gagcatgcat gggctccgac gtgcggg        27
95 <210> SEQ ID NO: 8
96 <211> LENGTH: 25
97 <212> TYPE: DNA
98 <213> ORGANISM: Homo sapien
100 <400> SEQUENCE: 8
101 ggggtaccca ctgaacgggc cccga        25
103 <210> SEQ ID NO: 9
104 <211> LENGTH: 18
105 <212> TYPE: DNA
106 <213> ORGANISM: Mus musculus
108 <400> SEQUENCE: 9
109 tccgagccgc acctcatg                18
111 <210> SEQ ID NO: 10
112 <211> LENGTH: 18
113 <212> TYPE: DNA
114 <213> ORGANISM: Mus musculus
116 <400> SEQUENCE: 10
117 gcctgggatg ctggactg                18
119 <210> SEQ ID NO: 11
120 <211> LENGTH: 27
121 <212> TYPE: DNA
122 <213> ORGANISM: Mus musculus
124 <400> SEQUENCE: 11
125 gagcatgcga tgggttccga cgtgcgg        27
127 <210> SEQ ID NO: 12
128 <211> LENGTH: 29
129 <212> TYPE: DNA
130 <213> ORGANISM: Mus musculus
132 <400> SEQUENCE: 12
133 ggggtacctc aaagcgccac gtggagttt    29
135 <210> SEQ ID NO: 13

```

RAW SEQUENCE LISTING

DATE: 01/10/2002

PATENT APPLICATION: US/09/684,361A

TIME: 13:30:58

Input Set : A:\465c2.app

Output Set: N:\CRF3\01102002\I684361A.raw

```

136 <211> LENGTH: 17
137 <212> TYPE: PRT
138 <213> ORGANISM: Mus musculus
140 <400> SEQUENCE: 13
141 Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Ser Ser Leu Gly Gly Gly
142 1 5 10 15
143 Gly
146 <210> SEQ ID NO: 14
147 <211> LENGTH: 19
148 <212> TYPE: PRT
149 <213> ORGANISM: Mus musculus
151 <400> SEQUENCE: 14
152 Gly Ala Thr Leu Lys Gly Met Ala Ala Gly Ser Ser Ser Ser Val Lys
153 1 5 10 15
154 Trp Thr Glu
157 <210> SEQ ID NO: 15
158 <211> LENGTH: 15
159 <212> TYPE: PRT
160 <213> ORGANISM: Homo sapien
162 <400> SEQUENCE: 15
163 Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg
164 1 5 10 15
166 <210> SEQ ID NO: 16
167 <211> LENGTH: 15
168 <212> TYPE: PRT
169 <213> ORGANISM: Mus musculus
171 <400> SEQUENCE: 16
172 Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg
173 1 5 10 15
175 <210> SEQ ID NO: 17
176 <211> LENGTH: 14
177 <212> TYPE: PRT
178 <213> ORGANISM: Mus musculus
180 <400> SEQUENCE: 17
181 Val Arg Arg Val Ser Gly Val Ala Pro Thr Leu Val Arg Ser
182 1 5 10
184 <210> SEQ ID NO: 18
185 <211> LENGTH: 14
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapien
189 <400> SEQUENCE: 18
190 Val Arg Arg Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser
191 1 5 10
193 <210> SEQ ID NO: 19
194 <211> LENGTH: 15
195 <212> TYPE: PRT
196 <213> ORGANISM: Homo sapien
198 <400> SEQUENCE: 19
199 Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His

```

RAW SEQUENCE LISTING

DATE: 01/10/2002

PATENT APPLICATION: US/09/684,361A

TIME: 13:30:58

Input Set : A:\465c2.app

Output Set: N:\CRF3\01102002\I684361A.raw

```

200      1              5              10              15
202 <210> SEQ ID NO: 20
203 <211> LENGTH: 15
204 <212> TYPE: PRT
205 <213> ORGANISM: Mus musculus
207 <400> SEQUENCE: 20
208  Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His
209      1              5              10              15
211 <210> SEQ ID NO: 21
212 <211> LENGTH: 21
213 <212> TYPE: DNA
214 <213> ORGANISM: Mus musculus
216 <400> SEQUENCE: 21
217  cccaggctgc aataagagat a                                21
219 <210> SEQ ID NO: 22
220 <211> LENGTH: 21
221 <212> TYPE: DNA
222 <213> ORGANISM: Mus musculus
224 <400> SEQUENCE: 22
225  atgttgatgat ggcggaccaa t                                21
227 <210> SEQ ID NO: 23
228 <211> LENGTH: 20
229 <212> TYPE: DNA
230 <213> ORGANISM: Homo sapien
232 <400> SEQUENCE: 23
233  gtggggcgcc ccaggcacca                                20
235 <210> SEQ ID NO: 24
236 <211> LENGTH: 24
237 <212> TYPE: DNA
238 <213> ORGANISM: Homo sapien
240 <400> SEQUENCE: 24
241  gtccttaatg ctacgcacga tttc                                24
243 <210> SEQ ID NO: 25
244 <211> LENGTH: 21
245 <212> TYPE: DNA
246 <213> ORGANISM: Homo sapien
248 <400> SEQUENCE: 25
249  ggcacatgag accagtgaga a                                21
251 <210> SEQ ID NO: 26
252 <211> LENGTH: 21
253 <212> TYPE: DNA
254 <213> ORGANISM: Homo sapien
256 <400> SEQUENCE: 26
257  gctgtccac ttacagatgc a                                21
259 <210> SEQ ID NO: 27
260 <211> LENGTH: 21
261 <212> TYPE: DNA
262 <213> ORGANISM: Homo sapien
264 <400> SEQUENCE: 27

```

RAW SEQUENCE LISTING

DATE: 01/10/2002

PATENT APPLICATION: US/09/684,361A

TIME: 13:30:58

Input Set : A:\465c2.app

Output Set: N:\CRF3\01102002\I684361A.raw

265 tcaaagcgcc agctggagtt t
267 <210> SEQ ID NO: 28
268 <211> LENGTH: 9
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapien
272 <400> SEQUENCE: 28
273 Ala Ala Gly Ser Ser Ser Ser Val Lys
274 1 5
276 <210> SEQ ID NO: 29
277 <211> LENGTH: 9
278 <212> TYPE: PRT
279 <213> ORGANISM: Homo sapien
281 <400> SEQUENCE: 29
282 Ala Ala Gln Phe Pro Asn His Ser Phe
283 1 5
285 <210> SEQ ID NO: 30
286 <211> LENGTH: 9
287 <212> TYPE: PRT
288 <213> ORGANISM: Homo sapien
290 <400> SEQUENCE: 30
291 Ala Glu Pro His Glu Glu Gln Cys Leu
292 1 5
294 <210> SEQ ID NO: 31
295 <211> LENGTH: 9
296 <212> TYPE: PRT
297 <213> ORGANISM: Homo sapien
299 <400> SEQUENCE: 31
300 Ala Gly Ala Cys Arg Tyr Gly Pro Phe
301 1 5
303 <210> SEQ ID NO: 32
304 <211> LENGTH: 9
305 <212> TYPE: PRT
306 <213> ORGANISM: Homo sapien
308 <400> SEQUENCE: 32
309 Ala Gly Ser Ser Ser Ser Val Lys Trp
310 1 5
312 <210> SEQ ID NO: 33
313 <211> LENGTH: 9
314 <212> TYPE: PRT
315 <213> ORGANISM: Homo sapien
317 <400> SEQUENCE: 33
318 Ala Ile Arg Asn Gln Gly Tyr Ser Thr
319 1 5
321 <210> SEQ ID NO: 34
322 <211> LENGTH: 9
323 <212> TYPE: PRT
324 <213> ORGANISM: Homo sapien
326 <400> SEQUENCE: 34
327 Ala Leu Leu Pro Ala Val Pro Ser Leu

21

VERIFICATION SUMMARY

DATE: 01/10/2002

PATENT APPLICATION: US/09/684,361A

TIME: 13:30:59

Input Set : A:\465c2.app

Output Set: N:\CRF3\01102002\I684361A.raw